

CLAIM AMENDMENTS

1 -- 15. (canceled)

1
2 16. (currently amended) In combination with a ~~treatment~~
3 ~~head of a tool machine and a member~~ two relatively angularly
4 ~~positionable relative to the treatment head of a machining~~
5 apparatus, an angularly indexable mount comprising:

6 a first coupling having

7 an outer ring element centered on an axis and having
8 an axially directed outer array of a
9 predetermined number of outer teeth and

10 a $[[n]]$ fixed inner element surrounded by the outer
11 element, the outer element being $[[and]]$
12 angularly displaceable relative $[[there]]$ to
13 the inner element about the axis, the inner
14 element having an inner array of a
15 predetermined number of inner teeth directed
16 axially in the same direction as the teeth of
17 the outer ring element, one of the elements
18 being connected to ~~the treatment head~~ one of
19 the parts and the other of the elements being
20 connected to the member the other of the parts,
21 the number of outer teeth of the outer element

22 varying by more than one from the number of
23 inner teeth of the inner element;
24 a second coupling centered on the axis and having
25 an annular outer array of outer teeth engageable
26 axially with and complementary to the array of
27 outer teeth of the first coupling and
28 an inner array of inner teeth engageable axially
29 with and complementary to the array of inner
30 teeth of the first coupling, the arrays of the
31 second coupling being fixed angularly relative
32 to each other, the number of teeth of the
33 second-coupling outer array varying by more
34 than one from the number of teeth of the
35 second-coupling inner array; and
36 means for shifting the couplings relative to each other
37 between a disengaged position with the teeth of the first coupling
38 out of engagement with the teeth of the second coupling and a work
39 position with the outer teeth of the first and second couplings
40 elements meshing and the inner teeth of the first and second
41 couplings meshing such that a minimum resolution is produced from a
42 difference between difference of more than one tooth of the outer
43 and inner teeth of the first coupling.

1 17. (previously presented) The mount defined in claim
2 16 wherein the teeth are uniformly angularly distributed in the
3 respective arrays.

1 18. (previously presented) The mount defined in claim
2 16 wherein the means can displace second coupling with respect to
3 the first coupling by an amount proportional to the relative
4 displacement of the two elements of the first coupling on change of
5 relative position of the machine and tool head attached to the
6 first-coupling elements.

19. (canceled)